

# Venturi Plunger

## BREAKTHROUGH INNOVATION

### Description

The patented Venturi Plunger is a hollow core bar stock style plunger with an orifice feature that amplifies its efficiency. A pressure differential is created across the orifice while the plunger is rising causing an accelerated flow regime inside the tool. The turbulent flow regime interacts via the exit of the tool helping lift. The upper chamber acts as a mixing chamber, where the turbulent gas aerates the liquid column, making it lighter and in response more efficient to lift. Due to the open core of this style plunger, it can be considered a “fast falling” bar stock plunger; a concept that increases this tool’s efficiency even further. The Venturi Plunger is also equipped with wear ring indicators, eliminating caliper measurements to determine wear and “auto-catch” indent grooves to assist in successful auto-catch operations.

### Applications

- Innovative design bridges gap between continuous and conventional run plungers
- Extreme light weight greatly reduces risk and potential for surface failures
- Proven in a wide range of wells from low to high rates
- Very effective in Low Gas Liquid Ratio (GLR) wells

### Features and Benefits

- Fast fall and efficient lift with no moving parts
- Behaves like a traveling gas lift valve
- Supersonic gas flow through the Venturi lightens liquid load
- Variable orifice option available for fall rate control
- Standard lengths 10” and 15”
- Available in HT 4140 and CR 13 (L80) steel
- Titanium options available for extreme velocity environments



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## Venturi Plunger

### Available in the Following Sizes

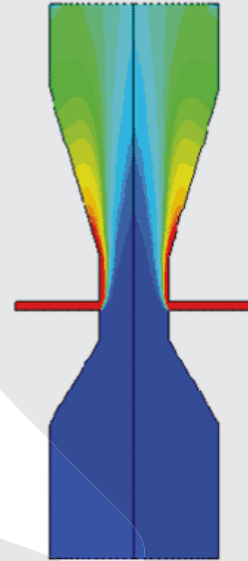
2 3/8", 2 7/8", 3 1/2"; other sizes available upon request

### Patent Information

Protected by Copyright, CND Patent 2,718,565 and US Patent 8,464,798 and 8,627,892

### Materials

- Suggested replacement OD on all solid designs is 0.03" wear
- All HTSR 4140 and L80 plungers are treated with zinc phosphate
- All plungers are available in a range of sizes and metallurgy for your toughest applications



### Specification Chart

Part No.	Plunger Weight (lbs)	Total Length (in)	Plunger Contact Length (in)	Fishing Tool Required (in)	Maximum Suggested Deviation (degrees/100ft)
RR2000	4.45	10	9.25	1.5 internal GS	42.3
RR2500	7.68	10	9.25	1.5 internal GS	45.0
RR3500	13.0	12	11.25	2.5 internal GS	42.7
RR2000L	6.67	15	14.25	1.5 internal GS	17.9
RR2500L	10.9	15	14.25	1.5 internal GS	19.0
RR3500L	15.2	15	14.25	2.5 internal GS	26.0
RR2000T	3.11	10	9.25	1.5 internal GS	42.3
RR2500T	5.33	10	9.25	1.5 internal GS	45.0
RR3500T	8.22	12	11.25	2.5 internal GS	42.7
RR2000TL	5.18	18	17.25	1.5 internal GS	12.2
RR2500TL	8.90	18	17.25	1.5 internal GS	13.0

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